

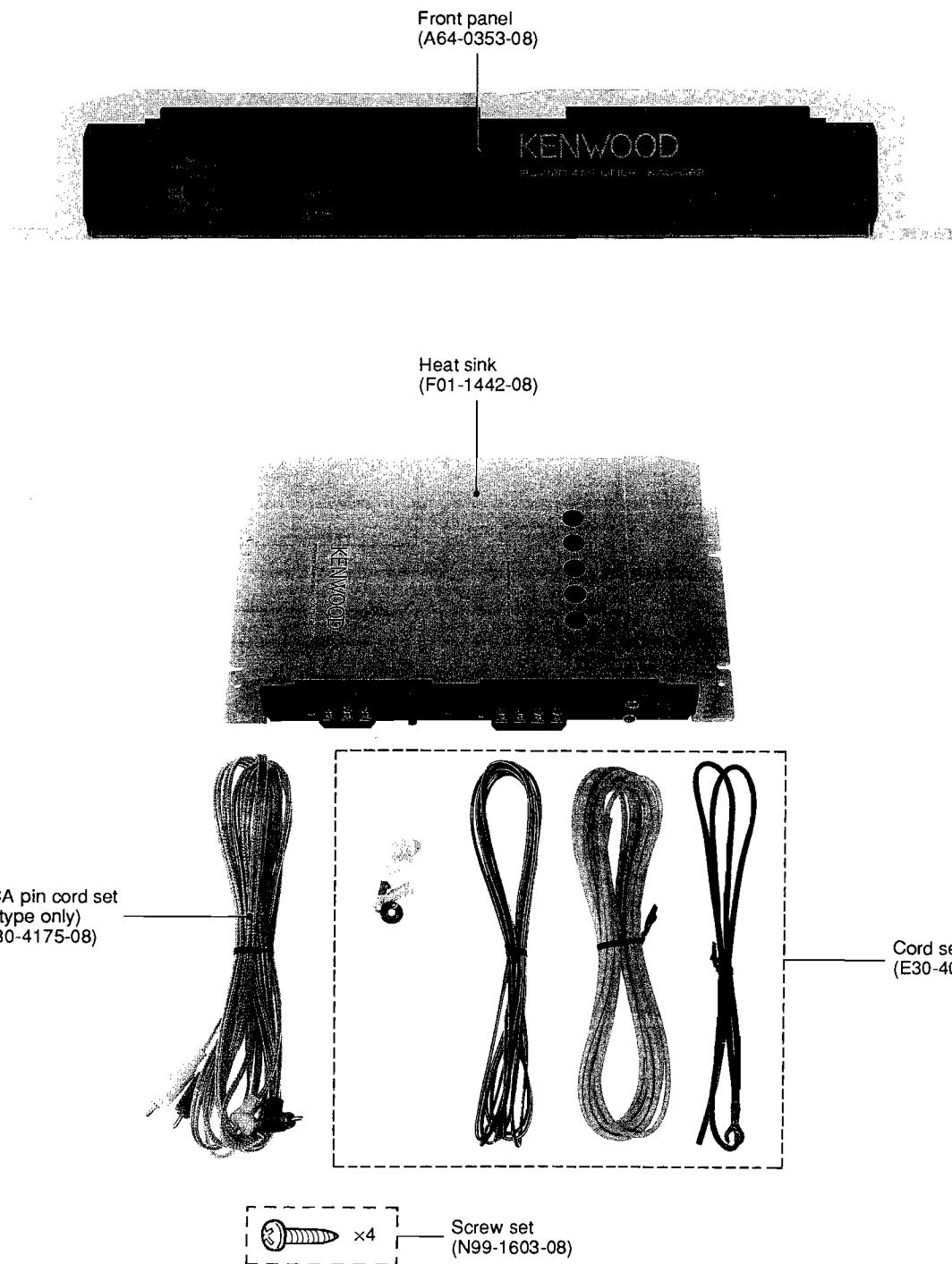
POWER AMPLIFIER

KAC-Q62

SERVICE MANUAL

KENWOOD
4/14

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B51-6691-00 (B) 3665



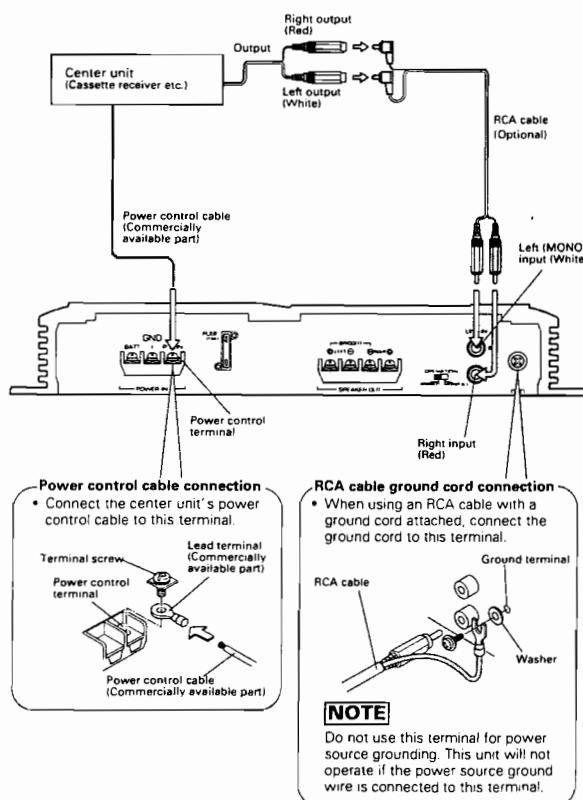
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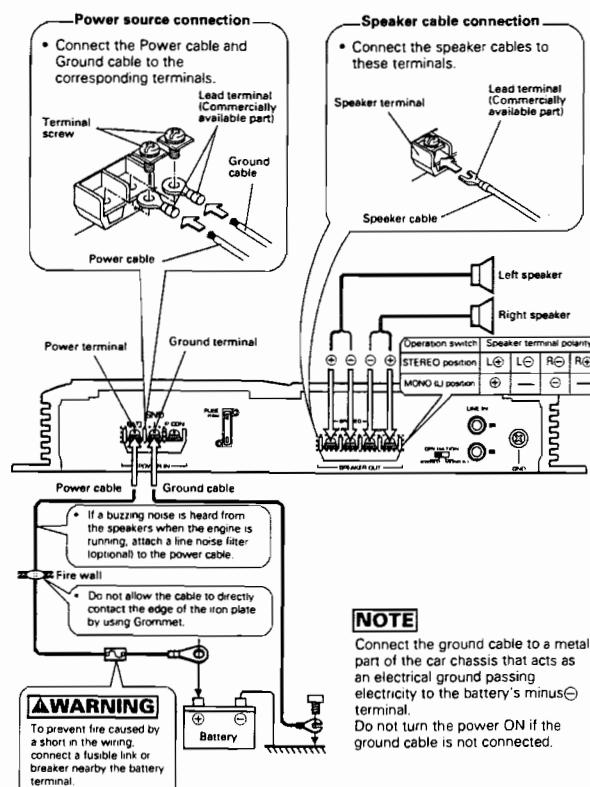
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CONNECTIONS

System Connection



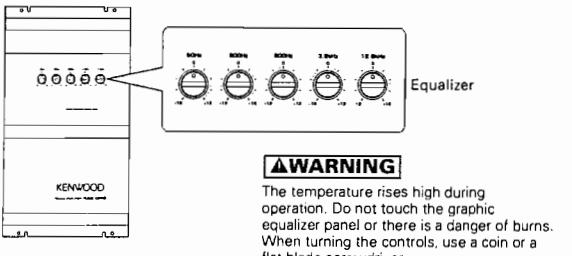
Power and speakers cable connection



CONNECTIONS

Point 1 Graphic Equalizer

This unit is a power amplifier incorporating a graphic equalizer. The 5-band graphic equalizer provides signal equalization for the amplifier.



■ Adjustment

Adjust the level of each frequency band as desired.

- To increase the level:

Turn the control of the band you wish to adjust to the right.



- To decrease the level:

Turn the control of the band you wish to adjust to the left.

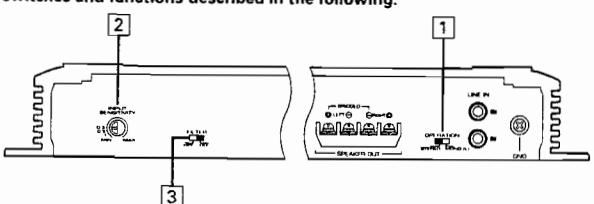


NOTE

If the treble or bass control is increased on the center unit and the graphic equalizer levels are increased at the same time, the sound may be distorted. Please adjust the graphic equalizer taking the balance with the positions of the treble and bass controls of the center unit into consideration.

Point 2 Flexibility

KAC-Q62 is compatible with a large variety of systems by combining the switches and functions described in the following.



① Operation switch

This switch selects the input method of the signals to be amplified by amps A and B.

OPERATION
STEREO MONO (L)

• STEREO position

The input left and right signals are amplified separately. Use this position when the unit is used as a stereo amplifier.

• MONO(L) position

The input left signal is amplified twice the normal boost level. Use this position when the unit is used as a high-power monaural amplifier. (The input right signal is not output.)

② Filter switch

These switches allow filtering of the output signals.

FILTER
HPF OFF

• HPF(High Pass Filter) position (12dB/oct. slope)

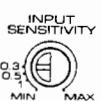
Only frequencies of 80Hz or higher are output. (Frequencies below 80Hz are cut.)

• OFF position

The original sound without filtering is output.

③ Input sensitivity

Adjust this control according to the pre-out level of the center unit connected to this amp.



| Center unit pre-out level | Amplifier input sensitivity |
|---------------------------|-----------------------------|
| 300 mV | MAX (0.15 V) |
| 800-1000 mV | 0.3 V |
| 1.5 V | 0.5 V |

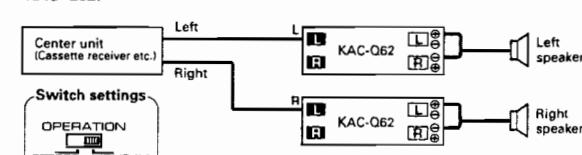
NOTE
Refer to "Specifications" on the center unit's instruction manual about the pre-out level.

System Examples

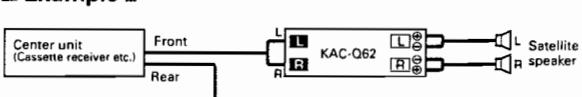
By combining the switches and functions of the KAC-Q62, you can implement a wide range of audio system configurations.

■ Example 1

A high-power system can be implemented by combining two units of KAC-Q62.



■ Example 2



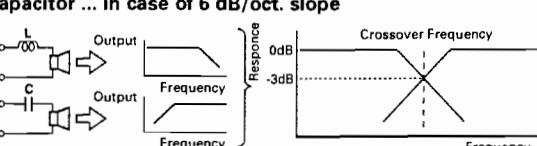
- Set the Low pass filter switch to ON and set the frequency control to the 80Hz position.
- Use a power amplifier equipped with the low pass filter function (KAC-1023/923/823 etc.).
- For details on the system connection, power connection, etc., please refer to the instruction manual provided with your power amplifier.

Point 3 Tri-mode

With the KAC-Q62, a subwoofer can be added easily to the speaker system by making use of the properties of coils and capacitors. This mode of operation is called Tri-mode.

■ Principle of Tri-mode

- Method of frequency band division using a coil and capacitor ... in case of 6 dB/oct. slope



- Coil (L) : Passes low frequencies and blocks high frequencies. (Low pass)
- Capacitor (C) : Passes high frequencies and blocks low frequencies. (High pass)

• Your coil and capacitor

Use the following formula to identify the coil and capacitor you need in your system.

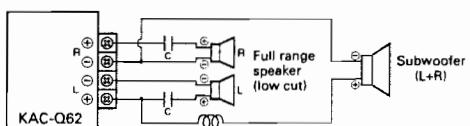
$$C = \frac{159000}{f_c \times R} \text{ } (\mu\text{F}) \quad L = \frac{159 \times R}{f_c} \text{ } (\text{mH}) \quad f_c = \text{Crossover Frequency (Hz)} \quad R = \text{Speaker Impedance (\Omega)}$$

Example :

When it is required to set a crossover frequency of 120 Hz using speakers with an impedance of 4 ohms, Prepare commercially-available coil and capacitor with the closest ratings to the results calculated from the formula above. The capacitor rating should be as close as possible to 331.25 (μF) and the coil rating should be as close as possible to 5.3 (mH).

■ System example

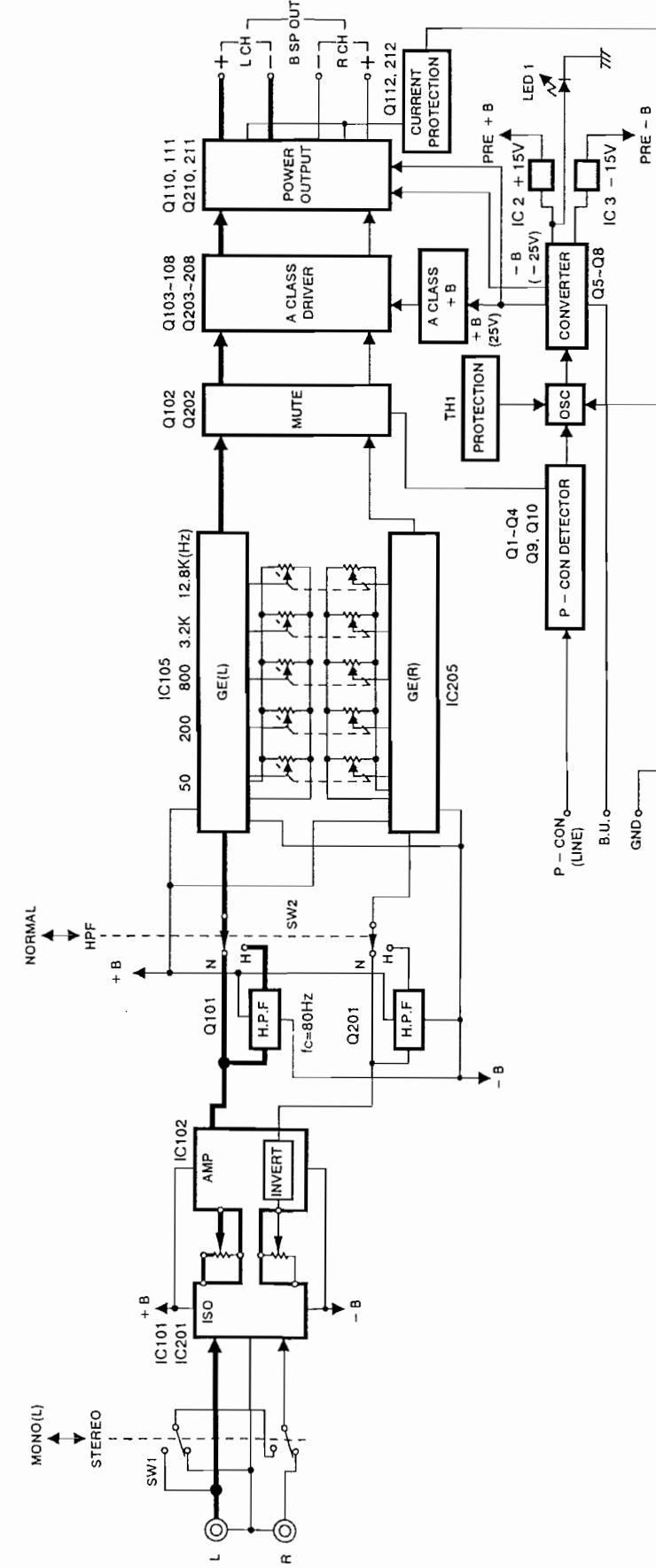
To use the Tri-mode configuration, set the OPERATION switch to the STEREO position.



CAUTION

Compose the speaker system so that the overall speaker impedance seen from the amplifier unit is no less than 2 ohms. If the impedance is less than 2 ohms, excessive current may flow and the amplifier unit may be damaged.

BLOCK DIAGRAM



KAC-Q62

CIRCUIT DESCRIPTION

DC-DC PWB

| Ref. No. | Ref. Name | Purposes, Functions | Operation, Condition, Compatibility |
|----------|------------|--|--|
| IC1 | UPC494C | OSC for DC/DC converter | Clock oscillator, protection comparator. |
| IC2 | NJM78M15FA | +15 V regulator power IC | +15 V supply. |
| IC3 | NJM79M15FA | -15 V regulated power IC | -15 V supply. |
| Q1 | 2SC4640T/U | Switch | Transistor accepting the P.CON signal. ON when P.CON is H, OFF when it is L. |
| Q2 | DTA124ES | Power ON/OFF | Turns OSC IC ON/OFF and muting circuits power ON/OFF. |
| | | Mute control (SW) | Muting is turned ON by P.CON ON → Q3 OFF → Q4 ON. |
| Q3 | 2SC4640T/U | Power amp power control SW | Power is supplied by P.CON ON → Q9 ON → Q10 ON. |
| Q4 | DTA124ES | Mute driver | Driver of muting transistors Q102 and Q202 |
| Q5, 6 | 2SA1782T/U | Discharging Transistor | Transistors for discharging the potential charged as gate capacitance of MOS FETs Q7 and Q8. |
| Q7, 8 | 2SK1257 | MOS FETs for DC/DC converter (for current amp) | ON when gate is H, OFF when it is L. Push-pull configuration. |
| Q9 | DTC124ES | Q10 driver | With time constant. Goes ON to turn Q10 ON when the set is operating. |
| Q10 | 2SA1782T/U | Power amp power SW | Delays the power supply to prevent shock noise. ON while the set is operating. |
| D1 | RM4ZLF | | |
| D2, 3 | 1SS131 | Q2 and Q3 malfunction prevention | |
| D4, 5 | 1SS131 | Q4 and Q9 malfunction prevention | |
| D6 | 1SS131 | Reverse current prevention | Isolation between IC1 current and the cathode of D11. |
| D7, 8 | 1SS131 | Q5 and Q6 malfunction prevention | Retains bias voltages of Q5 and Q6. |
| D9 | FMU12S | Secondary + power rectifier diode | |
| D10 | FMU12R | Secondary – power rectifier diode | |
| D11 | 1SS131 | Voltage retention of muting driver Q4 | Retains the muting power when P.CON goes OFF. |
| D12 | 1SS131 | Noise prevention against Q10 ON/OFF | Delays the switching of Q10 to reduce P.CON ON/OFF shock noise. |
| D13, 14 | DSK10C | 3-terminal regulators for IC2 and IC3 | Prevents output malfunction (latch down) of IC2 and IC3 when P.CON goes ON/OFF. |

KAC-Q62

CIRCUIT DESCRIPTION

MAIN PWB, GE PWB

| Ref. No. | Ref. Name | Purposes, Functions | Operation, Condition, Compatibility |
|---------------------|---------------|--|--|
| IC101, 201 | NJM4565LD | Isolation amps | |
| IC102 | NJM4565LD | Differential amp | L CH positive phase and R CH negative phase amplification. (R CH used in TRI mode only) |
| IC105, 205 | M5227P | GE IC | 5-point: 50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz. Variable range ± 10 dB. |
| Q101, 201 | 2SC4640T/U | Active Transistor for HPF | |
| Q102, 202 | 2SC4640T/U | Muting Transistor | ON for muting, normally OFF. |
| Q103, 104, 203, 204 | 2SA1782T/U | Differential amps in main amp 1st stage | |
| Q105, 106, 205, 206 | 2SC2784(F) | Differential amps in main amp 2nd stage | |
| Q107, 207 | 2SD1200(Q) | Idling current temperature compensation Transistor | Idling adjustment using VR102/202 between collector and base. (Idling current: 30 mA) |
| Q108, 208 | 2SD2225(R) | Power amp drivers | |
| Q109, 209 | 2SB1473(R) | Power amp drivers | |
| Q110, 210 | 2SC4385(O, Y) | Main amp power Transistor | |
| Q111, 211 | 2SC1670(O, Y) | Main amp power Transistor | |
| Q112, 212 | 2SC4640T/U | Overcurrent detection Transistor (for protection) | Detection based on the potential difference of emitter resistance during load overcurrent. |
| D101-104, 201-204 | 1SS131 | Electrostatic breakdown protection | |
| D105, 205 | 1SS131 | Muting (crosstalk improvement) | |
| D106, 206 | 1SS131 | Malfunction prevention of overcurrent detector circuit | |
| D107, 207 | 1SS131 | Malfunction prevention of error amp IC7 | Isolation between thermal shutoff detector circuit and load overcurrent detector circuit. |

KAC-Q62

ADJUSTMENT/ABGLEICH

ADJUSTMENT

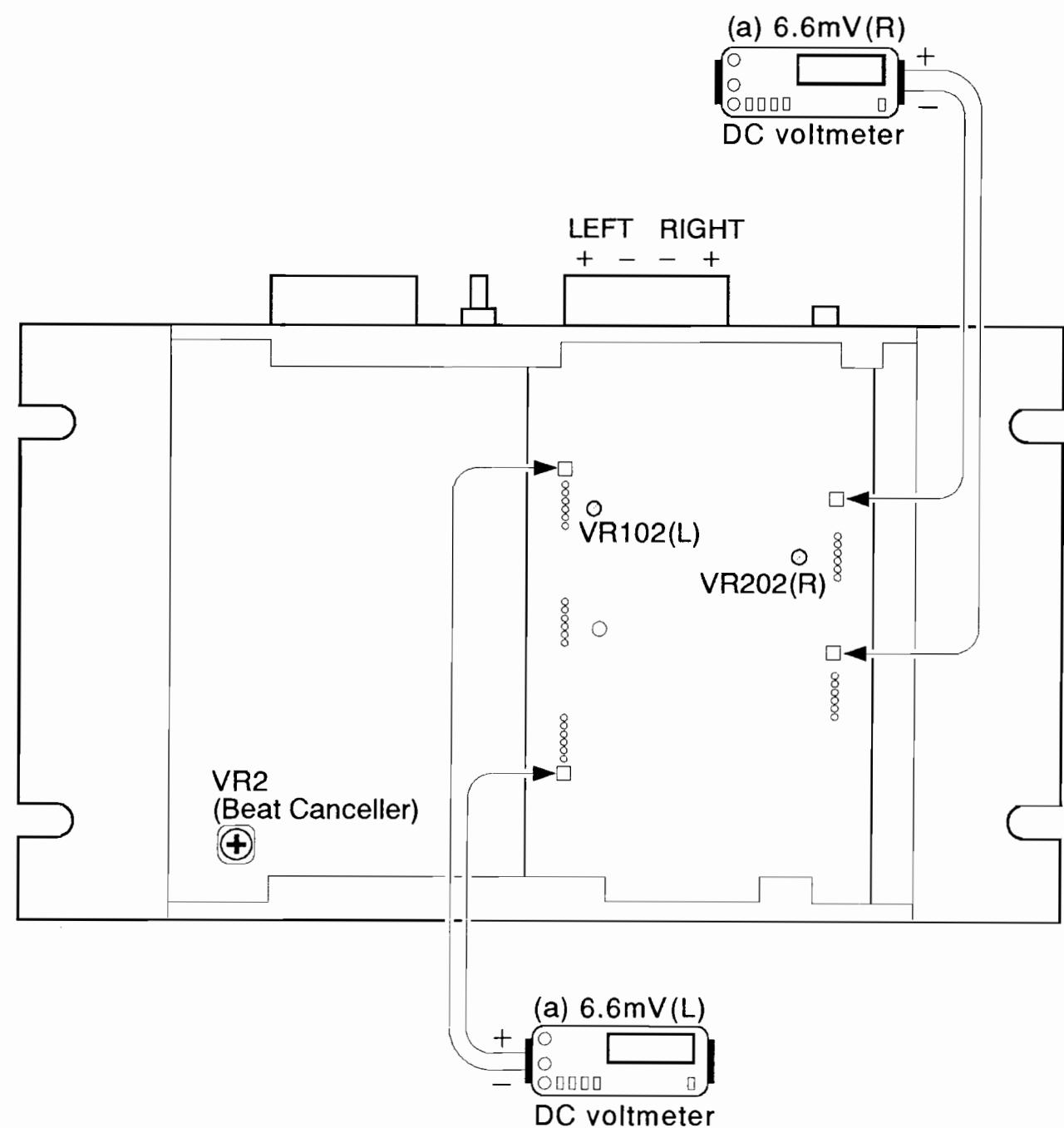
| No | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | SCASSETTE RECEIVER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|------------------------------|----------------|----------------|---|------------------------------|--|---|------|
| Connect a cassette receiver. | | | | | | | |
| 1 | BEAT CANCELLER | — | — | Receive AM BROADCAST STATION | VR2 (DC-DC PWB) | Only when there is BEAT NOISY SOUND. Ajust to minimal position. | |
| 2 | IDLE CURRENT | — | Connect a DC voltmeter to TP (MAIN PWB) | VOLUME : 0 | VR102 (Lch) VR202 (Rch) (MAIN PWB) | 6.6mV (30mA) | (a) |

ABGLEICH

| NR. | GEGENSTAND | EINGANGS-EINSTELLUNG | AUSGANG-EINSTELLUNG | VORSTÄRKER-EINSTELLUNG | ABGLEICHE-PUNKTE | ABGLEICHEEN FÜR | ABB |
|-----|----------------------------|----------------------|---|--------------------------|--|--|-----|
| 1 | INTERFERENZEN-UNTERDRÜCKER | — | — | MW-RADIOSENDER empfangen | VR2 (DC-DC PWB) | Nur wenn INTERFERENZEN oder STÖRGERÄUSCHE vorhanden sing. Auf die minimelposition. | |
| 2 | LEERLAUF-STROM | — | Einen Gleichspannungsmesser zu TP (MAIN PWB) anschließen. | VOLUME : 0 | VR102 (Lch) VR202 (Rch) (MAIN PWB) | 6.6mV (30mA) | (a) |

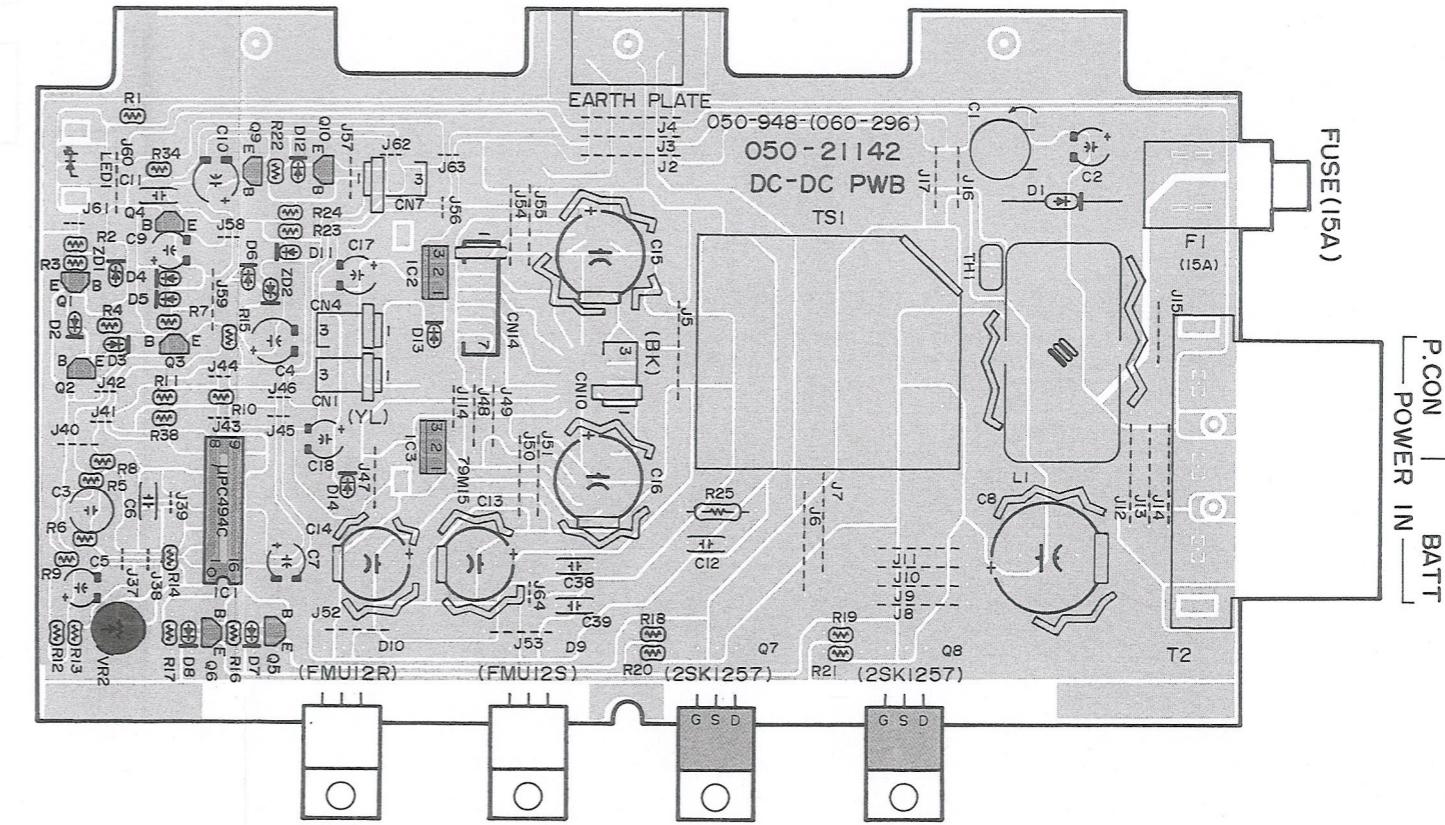
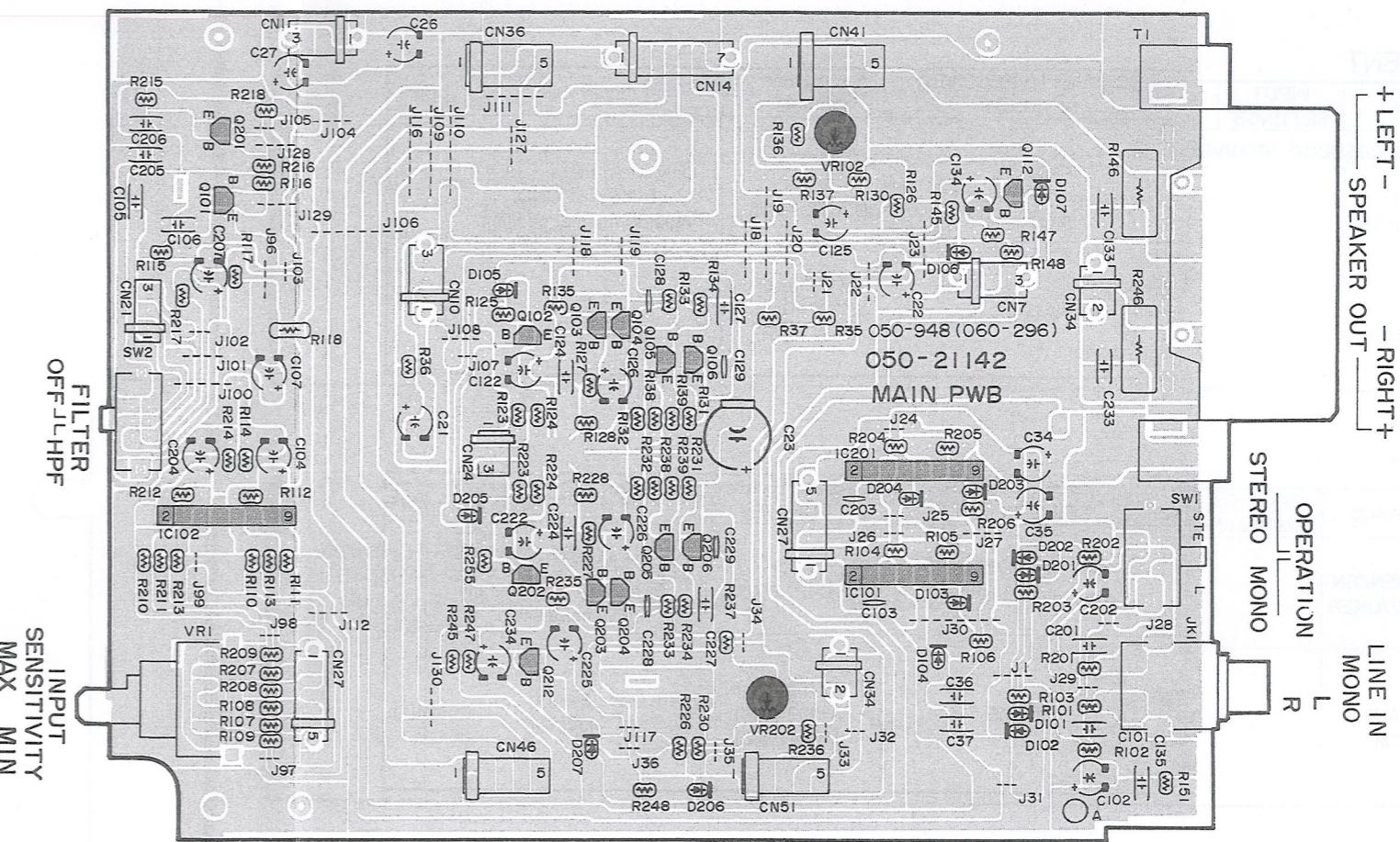
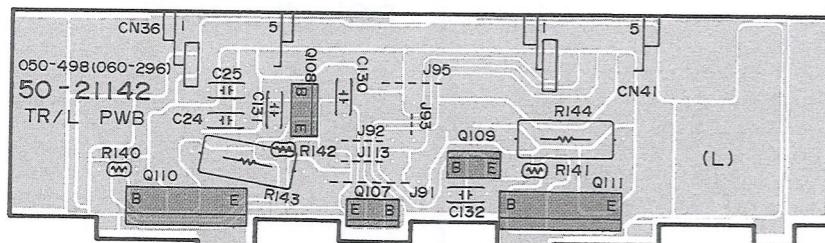
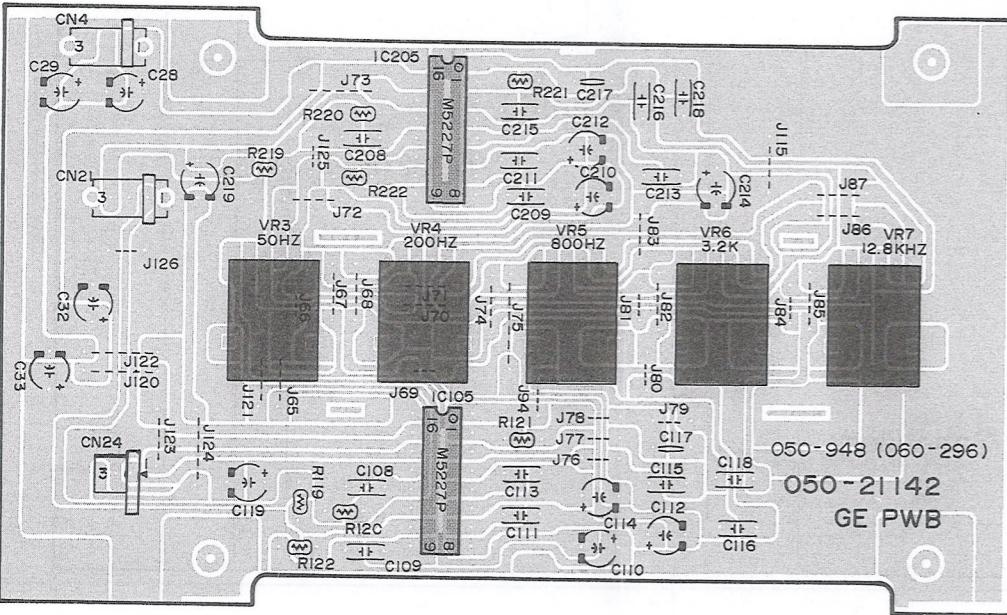
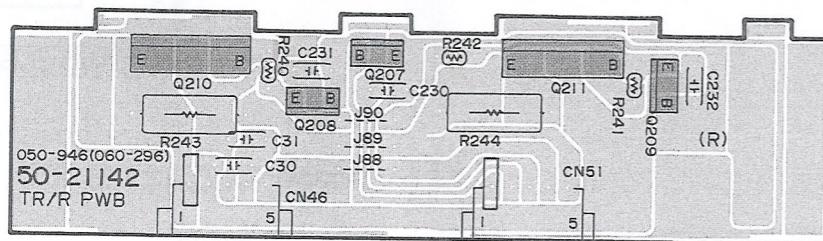
KAC-Q62

ADJUSTMENT

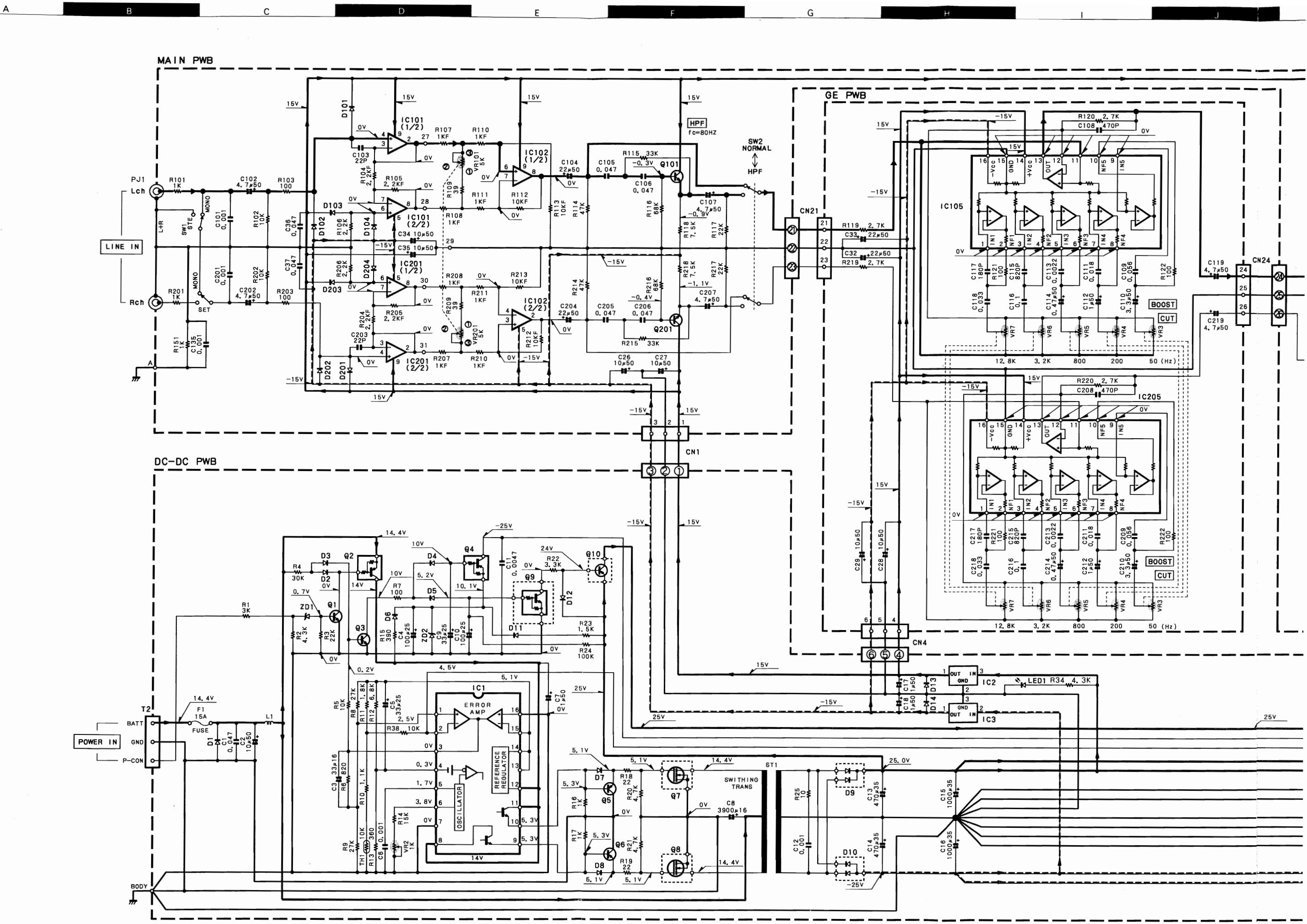


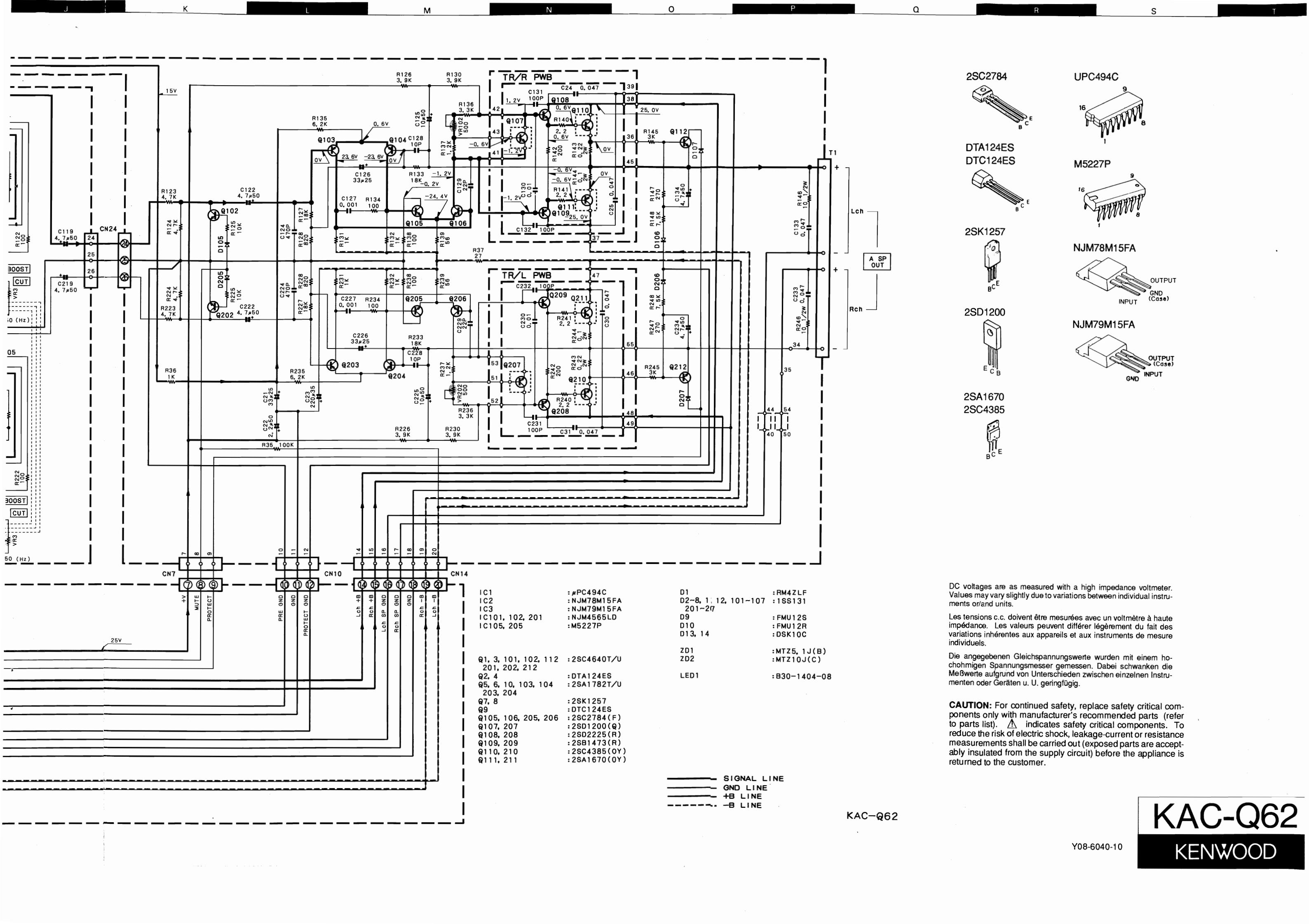
PC BOARD (Foil side view)

P.C. BOARD ASSY (W02-1438-08)

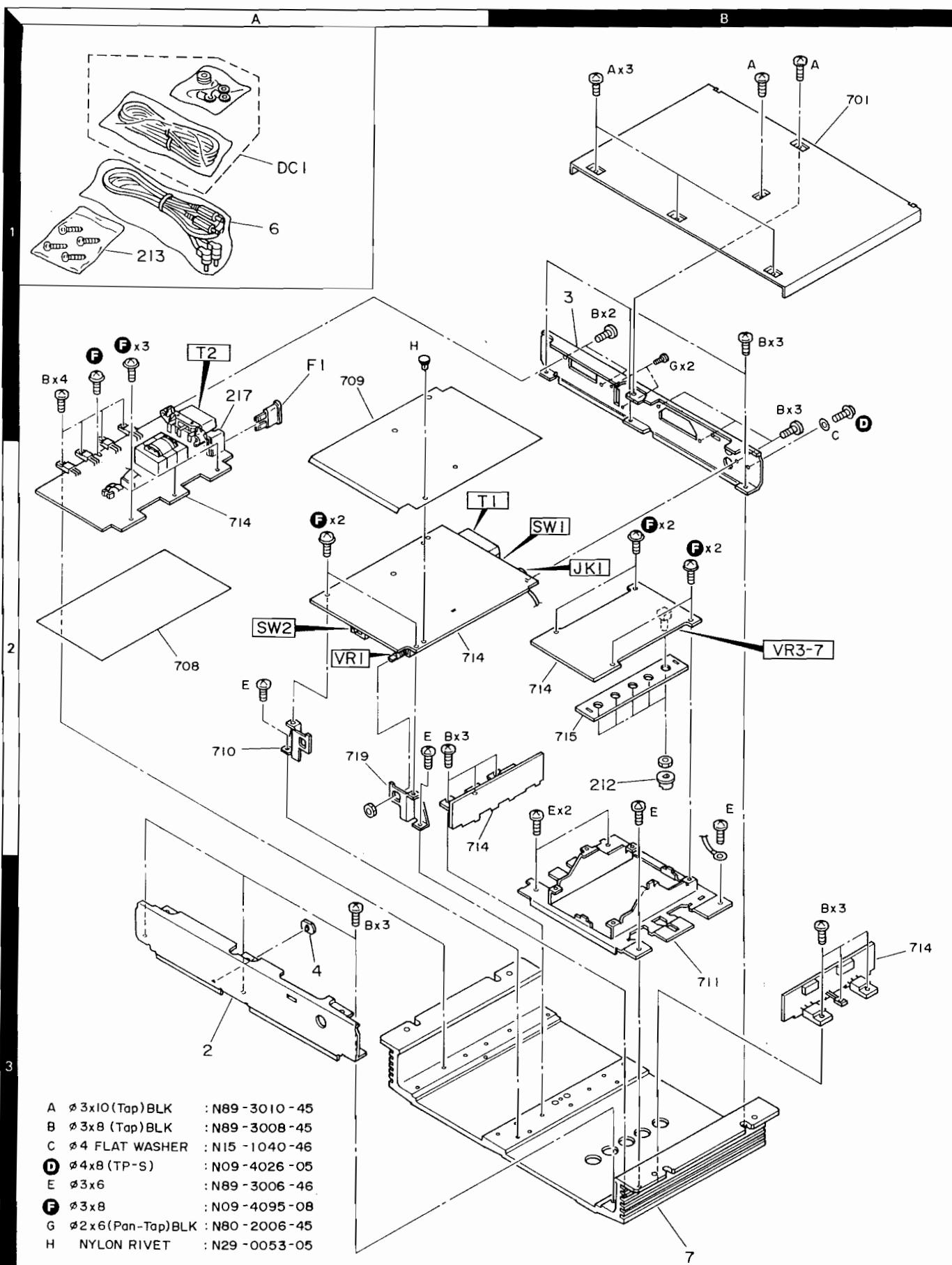


Refer to the schematic diagram for the values of resistors and capacitors.





EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

KAC-Q62
(W02-1438-08)

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|--------------------------------------|---------|-----------|--------------|---------------------------|--------------|---------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名／規格 | 仕向 | 備考 |
| KAC-Q62 | | | | | | |
| 2 | 3A | * | A64-0353-08 | FRONT PANEL | | |
| 3 | 1B | * | A84-0050-08 | REAR PANEL | | |
| 4 | 3A | | B19-0874-08 | LED FILTER | | |
| | | | B46-0100-30 | WARRANTY CARD | | |
| | | * | B64-0371-00 | INST. MANUAL | | |
| | | * | B64-0372-00 | INST. MANUAL | | |
| 6 | 1A | * | E30-4175-08 | RCA PIN CORD SET | | |
| DC1 | 1A | * | E30-4071-08 | CORD SET | | |
| 7 | 3B | * | F01-1442-08 | HEAT SINK | | |
| F1 | 1A | * | F05-1537-05 | FUSE (15A) | | |
| | | | H10-4436-08 | PACKING | | |
| | | | H25-0336-04 | P.E BAG (180X270X0.06T) | | |
| | | | H25-0341-04 | P.E BAG (320X450X0.04T) | | |
| | | * | H54-0173-08 | ITEM CARTON CASE | | |
| | | * | H64-0187-08 | OUTER CARTON CASE | | |
| 212 | 2B | | K29-5574-08 | KNOB | | |
| 213 | 1A | | N99-1603-08 | SCREW SET | | |
| A | 1B | | N89-3010-45 | BIND B-TITE SCREW (3X10) | | |
| B | 2B, 3B | | N89-3008-45 | BIND B-TITE SCREW (3X8) | | |
| C | 2B | | N15-1040-46 | WASHER (M4) | | |
| D | 1B | | N09-4026-05 | CUP S-TITE SCREW (4X8) | | |
| E | 2A | | N89-3006-46 | BIND B-TITE SCREW (3X6) | | |
| F | 2B | | N09-4095-08 | FLANGE B-TITE SCREW (3X8) | | |
| G | 1B | | N80-2006-45 | PAN T.P SCREW (2X6) | | |
| H | 1A | | N29-0053-05 | NYLON RIVET | | |
| P.C. BOARD ASSY (W02-1438-08) | | | | | | |
| LED1 | | | B30-1404-08 | LED | | |
| C1 | | | CK45FF1H473Z | CERAMIC | 0.047UF | Z |
| C2 | | | CE04DW1H100M | ELECTRO | 10UF | 50WV |
| C3 | | | C90-2774-08 | NP-ELECT | 33UF | 16WV |
| C4 | | | CE04DW1E101M | ELECTRO | 100UF | 25WV |
| C5 | | | CE04DW1E330M | ELECTRO | 33UF | 25WV |
| C6 | | | CF92V1H102J | MF | 1000PF | J |
| C7 | | | CE04DW1H010M | ELECTRO | 1.0UF | 50WV |
| C8 | | | C90-2786-08 | LED | 33UF | 25WV |
| C9 | | | CE04DW1E330M | ELECTRO | 100UF | 25WV |
| C10 | | | CE04DW1E101M | ELECTRO | 4700PF | J |
| C11 | | | CF92V1H472J | MF | 1000PF | J |
| C12 | | | CF92V1H102J | ELECTRO | 470UF | 35WV |
| C13 ,14 | | | CE04DW1V471M | ELECTRO | 1000UF | 35WV |
| C15 ,16 | | | CE04DW1V102M | ELECTRO | 1.0UF | 50WV |
| C17 ,18 | | | CE04DW1H010M | ELECTRO | CE04DW1E330M | |
| C21 | | | CE04DW1H2R2M | ELECTRO | 33UF | 25WV |
| C22 | | | CE04DW1V221M | ELECTRO | 2.2UF | 50WV |
| C23 | | | CF92V1H473J | MF | 220UF | 35WV |
| C24 ,25 | | | CE04DW1H100M | ELECTRO | 0.047UF | J |
| C26 -29 | | | CE04DW1H220M | ELECTRO | 10UF | 50WV |
| C30 ,31 | | | CE04DW1H100M | ELECTRO | 0.047UF | J |
| C32 ,33 | | | CE04DW1H220M | ELECTRO | 22UF | 50WV |
| C34 ,35 | | | CE04DW1H100M | ELECTRO | 10UF | 50WV |

E: Europe W: Without Europe P: Canada X: Australia
K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

indicates safety critical components.

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(W02-1438-08)

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|-------------------|-------------------|-----------------------|---------|------------------------|--------------------|
| C36 ,37 | | | CF92V1H473J | MF | 0.047UF | J | |
| C101 | | | CF92V1H102J | MF | 1000PF | J | |
| C102 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C103 | | | CC45FCH1H220J | CERAMIC | 22PF | J | |
| C104 | | | CE04DW1H220M | ELECTRO | 22UF | 50WV | |
| C105,106 | | | CF92V1H473J | MF | 0.047UF | J | |
| C107 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C108 | | | CF92V1H471J | MF | 470PF | J | |
| C109 | | | CF92V1H563J | MF | 0.056UF | J | |
| C110 | | | CE04DW1H3R3M | ELECTRO | 3.3UF | 50WV | |
| C111 | | | CF92V1H183J | MF | 0.018UF | J | |
| C112 | | | CE04DW1H010M | ELECTRO | 1.0UF | 50WV | |
| C113 | | | CF92V1H222J | MF | 2200PF | J | |
| C114 | | | CE04DW1HR47M | ELECTRO | 0.47UF | 50WV | |
| C115 | | | CF92V1H821J | MF | 820PF | J | |
| C116 | | | CF92V1H104J | MF | 0.10UF | J | |
| C117 | | | CK45FB1H181K | CERAMIC | 180PF | K | |
| C118 | | | CF92V1H333J | MF | 0.033UF | J | |
| C119 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C122 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C124 | | | CF92V1H471J | MF | 470PF | J | |
| C125 | | | CE04DW1H100M | ELECTRO | 10UF | 50WV | |
| C126 | | | CE04DW1E330M | ELECTRO | 33UF | 25WV | |
| C127 | | | CF92V1H102J | MF | 1000PF | J | |
| C128 | | | CC45FCH1H100D | CERAMIC | 10PF | D | |
| C129 | | | CC45FCH1H220J | CERAMIC | 22PF | J | |
| C130 | | | CF92V1H103J | MF | 0.010UF | J | |
| C131,132 | | | CF92V1H101K | MF | 100PF | K | |
| C133 | | | CF92V1H473J | MF | 0.047UF | J | |
| C134 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C135 | | | CF92V1H102J | MF | 1000PF | J | |
| C201 | | | CF92V1H102J | MF | 1000PF | J | |
| C202 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C203 | | | CC45FCH1H220J | CERAMIC | 22PF | J | |
| C204 | | | CE04DW1H220M | ELECTRO | 22UF | 50WV | |
| C205,206 | | | CF92V1H473J | MF | 0.047UF | J | |
| C207 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C208 | | | CF92V1H471J | MF | 470PF | J | |
| C209 | | | CF92V1H563J | MF | 0.056UF | J | |
| C210 | | | CE04DW1H3R3M | ELECTRO | 3.3UF | 50WV | |
| C211 | | | CF92V1H183J | MF | 0.018UF | J | |
| C212 | | | CE04DW1H010M | ELECTRO | 1.0UF | 50WV | |
| C213 | | | CF92V1H222J | MF | 2200PF | J | |
| C214 | | | CE04DW1HR47M | ELECTRO | 0.47UF | 50WV | |
| C215 | | | CF92V1H821J | MF | 820PF | J | |
| C216 | | | CF92V1H104J | MF | 0.10UF | J | |
| C217 | | | CK45FB1H181K | CERAMIC | 180PF | K | |
| C218 | | | CF92V1H333J | MF | 0.033UF | J | |
| C219 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C222 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| C224 | | | CF92V1H471J | MF | 470PF | J | |
| C225 | | | CE04DW1H100M | ELECTRO | 10UF | 50WV | |
| C226 | | | CE04DW1E330M | ELECTRO | 33UF | 25WV | |
| C227 | | | CF92V1H102J | MF | 1000PF | J | |
| C228 | | | CC45FCH1H100D | CERAMIC | 10PF | D | |

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Teile ohne Parts No. werden nicht geliefert.

(W02-1438-08)

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|-------------------|-------------------|-----------------------------|---------|------------------------|--------------------|
| C229 | | | CC45FCH1H220J | CERAMIC | 22PF | J | |
| C230 | | | CF92V1H103J | MF | 0.010UF | J | |
| C231,232 | | | CF92V1H101K | MF | 100PF | K | |
| C233 | | | CF92V1H473J | MF | 0.047UF | J | |
| C234 | | | CE04DW1H4R7M | ELECTRO | 4.7UF | 50WV | |
| JK1 | 2B | * | E63-0824-08 | PIN JACK (2P) | | | |
| T1 | 2A | * | E70-0817-08 | TERMINAL (4P) | | | |
| T2 | 1A | * | E70-0806-08 | TERMINAL (3P) | | | |
| 217 | 1A | | J13-0602-05 | FUSE HOLDER | | | |
| L1 | | | L33-0994-08 | SN COIL | | | |
| ST1 | | * | L19-0539-08 | SWITCHING TRANS | | | |
| R104,105 | | | RN14BK2C2201F | RN | 2.20K | F 1/6W | |
| R107,108 | | | RN14BK2C1001F | RN | 1.00K | F 1/6W | |
| R110,111 | | | RN14BK2C1001F | RN | 1.00K | F 1/6W | |
| R112,113 | | | RN14BK2C1002F | RN | 10.0K | F 1/6W | |
| R143 | | | RS14KB3DR22J | FL-PROOF RS | 0.22 | J 2W | |
| R144 | | | R92-2110-08 | METAL-PLATE 0.1 | | K 2W | |
| R146 | | | RS14KB2H100J | FL-PROOF RS | 10 | J 1/2W | |
| R204,205 | | | RN14BK2C2201F | RN | 2.20K | F 1/6W | |
| R207,208 | | | RN14BK2C1001F | RN | 1.00K | F 1/6W | |
| R210,211 | | | RN14BK2C1001F | RN | 1.00K | F 1/6W | |
| R212,213 | | | RN14BK2C1002F | RN | 10.0K | F 1/6W | |
| R243 | | | RS14KB3DR22J | FL-PROOF RS | 0.22 | J 2W | |
| R244 | | | R92-2110-08 | METAL-PLATE 0.1 | | K 2W | |
| VR1 | | | RS14KB2H100J | FL-PROOF RS | 10 | J 1/2W | |
| VR2 | | | R10-0626-08 | POTENTIOMETER (5KBX2) | | | |
| VR3 -7 | | | R12-1830-08 | TRIMMING POT. (1K) | | | |
| VR102,202 | | * | R10-0647-08 | POTENTIOMETER (5KBX2) | | | |
| SW1 ,2 | | | R12-1829-08 | TRIMMING POT. (500) | | | |
| D1 | | * | RM4ZLF | SLIDE SWITCH | | | |
| D2 -8 | | | 1SS131 | DIODE | | | |
| D9 | | | FMU12S | DIODE | | | |
| D10 | | | FMU12R | DIODE | | | |
| D11 ,12 | | | 1SS131 | DIODE | | | |
| D13 ,14 | | | DSK10C | DIODE | | | |
| D101-107 | | | 1SS131 | DIODE | | | |
| D201-207 | | | 1SS131 | DIODE | | | |
| IC1 | | | UPC494C | IC(SWITCHING REGULATOR) | | | |
| IC2 | | | NJM78M15FA | IC(VOLTAGE REGULATOR/ +15V) | | | |
| IC3 | | | NJM79M15FA | IC(VOLTAGE REGULATOR/ -15V) | | | |
| IC101,102 | | * | NJM4565LD | IC | | | |
| IC105 | | | M5227P | IC(5CH GRAPHIC EQUALIZER) | | | |
| IC201 | | * | NJM456 | | | | |

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(W02-1438-08)

| Ref. No. 参照番号 | Address 位 置 | New Parts 新 | Parts No. 部 品 番 号 | Description 部 品 名 / 規 格 | Desti- nation 仕 向 | Re- marks 備 考 |
|------------------|----------------|-------------------|----------------------|----------------------------|-------------------------|---------------------|
| Q10 | | * | 2SA1782T/U | TRANSISTOR | | |
| Q101, 102 | | * | 2SC4640T/U | TRANSISTOR | | |
| Q103, 104 | | * | 2SA1782T/U | TRANSISTOR | | |
| Q105, 106 | | * | 2SC2784(F) | TRANSISTOR | | |
| Q107 | | | 2SD1200(Q) | TRANSISTOR | | |
| Q108 | | | 2SD2225(R) | TRANSISTOR | | |
| Q109 | | | 2SB1473(R) | TRANSISTOR | | |
| Q110 | | | 2SC4385(Ø, Y) | TRANSISTOR | | |
| Q111 | | | 2SA1670(Ø, Y) | TRANSISTOR | | |
| Q112 | | * | 2SC4640T/U | TRANSISTOR | | |
| Q201, 202 | | * | 2SC4640T/U | TRANSISTOR | | |
| Q203, 204 | | * | 2SA1782T/U | TRANSISTOR | | |
| Q205, 206 | | * | 2SC2784(F) | TRANSISTOR | | |
| Q207 | | | 2SD1200(Q) | TRANSISTOR | | |
| Q208 | | | 2SD2225(R) | TRANSISTOR | | |
| Q209 | | | 2SB1473(R) | TRANSISTOR | | |
| Q210 | | | 2SC4385(Ø, Y) | TRANSISTOR | | |
| Q211 | | | 2SA1670(Ø, Y) | TRANSISTOR | | |
| Q212 | | * | 2SC4640T/U | TRANSISTOR | | |
| TH1 | | | DTN-D103K4D-NHA | THERMISTER 10K | | |
| ZD1 | | | MTZ5.1J(B) | ZENER DIODE | | |
| ZD2 | | | MTZ10J(C) | ZENER DIODE | | |

E: Europe W: Without Europe P: Canada X: Australia
K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

 indicates safety critical components.

KAC-Q62

SPECIFICATIONS

Specifications subject to change without notice.

Audio section

| | |
|--------------------------|--|
| Max power output (4 Ω) | |
| Normal | .80 W × 2 |
| Bridge | 180 W × 1 |
| Rated power output (4 Ω) | |
| Normal | .40 W × 2 (20 Hz ~ 20 kHz, less than 0.08 % THD) |
| Bridge | 110 W × 1 (1 kHz, 0.08 % THD) |
| Rated power output (2 Ω) | |
| Normal | .55 W × 2 (1 kHz, 0.8 % THD) |
| Frequency Response | 6 Hz ~ 65 kHz (-3dB) |
| Signal to Noise Ratio | 100 dB |
| Sensitivity (MAX) | 0.15 V (rated output) |
| Sensitivity (MIN) | 3.0 V (rated output) |
| Input impedance | 10 kΩ |
| Damping Factor(100 Hz) | More than 100 |

EQ section

| | |
|----------------------------|--|
| Equalizer Center Frequency | 50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz |
| Frequency Range | -10 ~ +10 dB |

General

| | |
|------------------------|--|
| Operating voltage | 14.4 V (11 ~ 16 V allowable) |
| Current consumption | 16 A (1 kHz, 10%) |
| Dimensions (W X H X D) | 220 X 48 X 200 mm 8-11/16 X 1-7/8 X 7-7/8 in. |
| Weight | 2.1 kg (4.7 lb) |

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